Co r mm Defi ors ents nitio	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Erro r Defi nitio														
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Co r Time Stamp mm Defi ors	2003/09/12 16:26	2003/09/12 16:27	2003/09/12 16:28	2003/09/12 16:29	2003/09/12 16:29	2003/09/12 16:29	2003/09/12 16:29	2003/09/12 16:30	2003/09/12 16:30	2003/09/12 16:31	2003/09/12 16:31	2003/09/12 16:32	2003/09/12 16:32	2003/09/12 16:33
DBs	USPAT; US-PGPUB; EPO; JPO; DERWENT	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;	S-PGPUB;	USPAT; US-PGPUB; 2003/09/12 EPO; JPO; 16:32	USPAT; US-PGPUB; EPO; JPO;	USPAT; US-PGPUB; EPO; JPO;
Search Text	(ancylosoma adj duodenale) or (anclostoma adj ceyanicum) or (necator adj americanus) or (ancylostoma adj caninum)	(polypeptide or peptide or protein) same 1	inhibit\$3 same platelet	2 same 3	hookworm same 2	6 same 3	integrin	fibrinogen or collagen	8 same 9	6 same 10	epinephrine or thrombin or adp EPO; JPO;	3 same 12	13 same 6	39620 immune adj response
Hits	312	42	21632	_	34	_	8642	55287	1666	0	31584	3742	0	39620
L #	L1	1.2	L3	77	Te	L7	L8	F)	L10	L11	L12	L13	L14	L15
Type	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS	BRS
		2	3	4	5	9	7	8	6	10	11	12	13	14

Type L# Hits Search Text DBs Time Stamp ents nitio Co rb r mitio Britio Brition Britio	T							<u>国</u>	Erro	
15 same 6 chadderdon adj robert.in. del adj valle adj antonio.in. harrison adj lisa.in. cappello adj michael.in.		Type	L#		Search Text		Time Stamp	Co mm E ents n	r Jefi itio	Srr
chadderdon adj robert.in. del adj valle adj antonio.in. harrison adj lisa.in. cappello adj michael.in.		RRS	L16		15 same 6	USPAT; US-PGPUB; EPO: JPO:	2003/09/12 16:34			
chadderdon adj robert.in. del adj valle adj antonio.in. harrison adj lisa.in. cappello adj michael.in.						USPAT; US-PGPUB;	2003/09/12			0
del adj valle adj antonio.in. harrison adj lisa.in. cappello adj michael.in.		BRS	L18	0	chadderdon adj robert.in.	EPO; JPO;	16:36			
harrison adj lisa.in. cappello adj michael.in.		BRS	L19	0	del adj valle adj antonio.in.	USFA1; US-FOI UE, EPO; JPO;	16:36			0
cappello adj michael.in.		BRS		0	harrison adj lisa.in.	USPAT; US-PGPUB; EPO; JPO;	2003/09/12 16:36			0
cappello adj ilitoracioni: EPO; JPO;						USPAT; US-PGPUB;	2003/09/12			0
	_	BRS	LI/	2	cappeno ad monacimi	EPU; JPU;	10.37			

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FILE 'MEDLINE' ENTERED AT 16:46:56 ON 12 SEP 2003
FILE 'CAPLUS' ENTERED AT 16:46:56 ON 12 SEP 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'SCISEARCH' ENTERED AT 16:46:56 ON 12 SEP 2003
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FILE 'AGRICOLA' ENTERED AT 16:46:56 ON 12 SEP 2003
=> s hookworm
             8048 HOOKWORM
=> s l1 (p) (peptide polypeptide or protein)
               501 L1 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
=> s (ancylostoma adj duodenate) or (ancylostoma ceylanicum) or (necator americanus) or (ancylosto
             4739 (ANCYLOSTOMA ADJ DUODENATE) OR (ANCYLOSTOMA CEYLANICUM) OR (NECA TOR AMERICANUS) OR (ANCYLOSTOMA CANINUM)
=> s 13 (p) (PEPTIDE POLYPEPTIDE OR PROTEIN)
               470 L3 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
=> s 14 or 12
. c 728 L4 OR L2
=> s inhibit? (p) platelet
          165396 INHIBIT? (P) PLATELET
=> s 15 (p) 16
17 16 L5 (P) L6
=> duplicate remove 17
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L7
                  8 DUPLICATE REMOVE L7 (8 DUPLICATES REMOVED)
=> d 18 1-8 ibib abs
L8
     ANSWER 1 OF 8
                              MEDLINE on STN
                                                                          DUPLICATE 1
ACCESSION NUMBER:
                          2003321665
                                             MEDLINE
DOCUMENT NUMBER:
                          22735468
                                       PubMed ID: 12850261
TITLE:
                          Isolation and molecular cloning of a secreted hookworm
                          platelet inhibitor from adult Ancylostoma caninum.
Del Valle Antonio; Jones Brian F; Harrison Lisa M;
AUTHOR:
                          Chadderdon Robert C; Cappello Michael
                          Department of Pediatrics, Yale University School of
Medicine, 464 Congress Avenue, New Haven, CT 06520-8081,
CORPORATE SOURCE:
                          USA
CONTRACT NUMBER:
                          HD007388 (NICHD)
                          MOLECULAR AND BIOCHEMICAL PARASITOLOGY, (2003 Jul) 129 (2)
SOURCE:
                          167-77.
                          Journal code: 8006324. ISSN: 0166-6851.
PUB. COUNTRY:
                          Netherlands
DOCUMENT TYPE:
                          Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:
                          English
FILE SEGMENT:
                          Priority Journals
ENTRY MONTH:
                          200309
ENTRY DATE:
                          Entered STN: 20030710
                          Last Updated on STN: 20030909
                          Entered Medline: 20030908
      ***Hookworms*** , bloodfeeding intestinal nematodes, are a leading cause of iron deficiency anemia in the developing world. These parasites have evolved potent mechanisms of interfering with mammalian hemostasis, presumably for the purpose of facilitating bloodfeeding. Adult ***Ancylostoma*** ***caninum*** worm extracts contain an activity
AB
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that ***inhibits*** ***platelet*** aggregation and adhesion by blocking the function of two blocking th
                         ***protein*** extracts of A. caninum. Because the two
***inhibitory*** activities co-purified through multiple chromatographic
                   steps, have similar molecular masses and share identical N-terminal as
                   well as internal amino acid sequence homology, it is likely that they
                   represent a single gene product. A cDNA corresponding to the purified ***hookworm*** ***platelet*** ***inhibitor*** (HPI)
                   ***protein*** has been cloned from adult A. caninum RNA, and the translated amino acid sequence shows significant homology to Neutrophil ***Inhibitory*** Factor and Ancylostoma Secreted ***Proteins*** suggesting that these related ***hookworm*** ***proteins***
                   represent a novel class of integrin receptor antagonists. Polyclonal antibodies raised against the recombinant HPI ***protein*** recognize
                   antibodies raised against the recombinant HPI ***protein*** recorresponding native ***proteins*** in A. caninum extracts and
                  excretory/secretory products, and immunohistochemistry data have identified the cephalic glands as the major source of the ***inhibitor*** within the adult ***hookworm***. These of the adult ***hookworm***.
                                                                                                                                                                                 These data suggest
                  that HPI is secreted by the adult stage of the parasite at the site of intestinal attachment. As such, it may represent a viable target for a vaccine-based strategy aimed at interfering with ***hookworm***
                   -induced gastrointestinal hemorrhage and iron deficiency anemia.
                  ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN 5SION NUMBER: 2002:615867 CAPLUS
    ACCESSION NUMBER:
    DOCUMENT NUMBER:
                                                                          137:165271
    TITLE:
                                                                          Integrin-binding fusion proteins of dendroaspin and
                                                                          anticoagulant proteins and their use in the treatment
                                                                          of clotting disorders
                                                                          Lu, Xinjie; Kakkar, Vijay Vir
Trigen Limited, UK
    INVENTOR(S):
    PATENT ASSIGNEE(S):
    SOURCE:
                                                                          PCT Int. Appl., 68 pp.
                                                                          CODEN: PIXXD2
DOCUMENT TYPE:
                                                                          Patent
    LANGUAGE:
                                                                          English
    FAMILY ACC. NUM. COUNT:
| PATENT INFORMATION:
                  PATENT NO.
                                                                 KIND DATE
                                                                                                                           APPLICATION NO.
                                                                                  20020815
                  wo 2002063017
                                                                   Α2
                                                                                                                           WO 2002-GB500
                                                                                                                                                                           20020205
                                       AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
                                         GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
                                        LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
                                         TJ, TM
                             RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG APPLN. INFO.:

US 2001-267234P P 20010205
PRIORLIT OUTER SOURCE(S):

OTHER SOURCE(S):

Fusion ***proteins***
PRIORITY APPLN. INFO.:
                                                                         MARPAT 137:165271
                  Fusion ***proteins*** of an integrin-binding ***protein***, esp
dendroaspin and a second ***protein*** are described for use in the
                 targeted therapeutic delivery of ***protein*** are described for use in the targeted therapeutic delivery of ***proteins*** to blood vessels. The second moiety of the fusion ***protein*** is most often an anticoagulant ***protein*** for use in the treatment of clotting disorders. Chimeric genes encoding a fusion ***proteins*** of dendroaspin and the proteinase ***inhibitor*** NAP5 of ***Ancylostoma*** ***caninum*** was constructed and expressed in Escherichia coli. The ***proteins*** ***inhibited*** ADP-induced ***platelet*** aggregation at concess of 260-500 nm compared to 26 273
                                                                   aggregation at concns. of 260-500 nm, compared to 76-277
                         ***platelet***
                 nM for dendroaspin and other snake venom anticoagulants. They also
***inhibited*** collagen-induced ***platelet*** aggregation
Dendroaspin did not ***inhibit*** factor Xa, but the fusion
                                                                                                                           factor Xa, but the fusion
                                                                            ***inhibited***
                        ***proteins***
                                                                                                                             it at 1.1-140.9 nm.
                 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
                                                                          2000:707193 CAPLUS
   ACCESSION NUMBER:
   DOCUMENT NUMBER:
                                                                          133:286422
                                                                         Hookworm platelet aggregation inhibitor
```

TITLE: INVENTOR(S): Cappello, Michael; Chadderdon, Robert C.; Del Valle, Antonio; Harrison, Lisa M.

PATENT ASSIGNEE(S): Yale University, USA

PCT Int. Appl., 38 pp. SOURCE: CODEN: R kD2 DOCUMENT TYPE: Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 20001005 wo 2000-US8519 20000330 wo 2000058341 Α1 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

1165598

A1 20020102

EP 2000-918509 20000330

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

2002539817

T2 20021126

JP 2000-608041 20000330 EP 1165598 JP 2000-608041 20000330 US 1999-127239P P 19990331 WO 2000-US8519 W 20000330 JP 2002539817 PRIORITY APPLN. INFO.:

of ***platelet*** aggregation and adhesion is rized from sol. ***protein*** exts. of adult ***caninum*** ***hookworms*** and then cloned ***inhibitor*** AR purified and characterized from sol. ***Ancylostoma*** and sequenced. The ***inhibitor*** blocks ***platelet*** aggregation in response to a variety of agonists, interfering with the binding of at least one cell surface integrin with its resp. ligand. Embodiments include ***inhibition*** of the binding of fibrinogen to cell surface integrin GPIIb/IIIa (.alpha.IIb.beta.3) and ***inhibition*** of the binding of collagen to cell surface integrin GPIa/IIa (.alpha.2 beta.1). Medical and veterinary pharmaceutical and GPIa/IIa (.alpha.2.beta.1). Medical and veterinary pharmaceutical and immunol. compns. contg. the ***platelet*** ***inhibitor*** , and

immunol. compns. contg. the ***pl methods of using it, are described. RENCE COUNT: 2 THERE ARE REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

2000:531682 CAPLUS ACCESSION NUMBER: 133:131741

DOCUMENT NUMBER:

TITLE: Serine proteinase inhibitors and anticoagulant

proteins from Ancyclostoma caninum

INVENTOR(S):

Vlasuk, George Phillip; Stanssens, Patrick Eric Hugo; Messens, Joris Hilda Lieven; Lauwereys, Marc Josef; Laroche, Yves Rene; Jespers, Laurent Stephane; Gansemans, Yannick Georges Jozef; Moyle, Matthew;

Bergum, Peter W.

Corvas International, Inc., USA U.S., 199 pp. PATENT ASSIGNEE(S):

SOURCE:

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE A 20000801 US 6096877 us 1999-249461 19990212 PRIORITY APPLN. INFO.: US 1999-249461 19990212 OTHER SOURCE(S): MARPAT 133:131741 ***Proteins*** which have activity as anticoagulants or serine

protease ***inhibitors*** and have at least one NAP (nematode anticoagulant ***protein***) domain and are described. Certain of these ***proteins*** have factor Xa ***inhibitory*** activity a others have activity as ***inhibitors*** of factor VIIa/TF. These activity and ***proteins*** can be isolated from natural sources such as the nematode Ancyclostoma caninum, chem. synthesized or made by expression of the cloned gene. Purifn. of two such ***proteins*** from A. caninum, cloning and expression of cDNAs encoding them, and use of the cDNAs to clone corresponding cDNAs from ***Necator*** ***americanus*** described. The ***proteins*** had a Ki for factor Xa amidolytic activity of 43.+-.5 or 996.+-.65 pM and for prothrombin of 144.+-.15 and 207.+-.40 pM resp. The ***proteins*** were also effective in preventing thrombotic occlusion in vivo in the rat model of FeCl3-induced

platelet -dependent arterial thrombosis. THE ARE 138 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REFERENCE COUNT: 138 **FORMAT**

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ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER:
                                            2000:492067 CAPLUS
DOCUMENT NUMBER:
                                            133:116714
 TITLE:
                                            Serine proteinase inhibitors and anticoagulant
                                            proteins from Ancyclostoma caninum
 INVENTOR(S):
                                            Vlasuk, George Phillip; Stanssens, Patrick Eric Hugo;
                                            Messens, Joris Hilda Lieven; Lauwereys, Marc Josef;
Laroche, Yves Rene; Jespers, Laurent Stephane;
Gansemans, Yannick Georges Jozef; Moyle, Matthew;
                                            Bergum, Peter W.
Corvas International, Inc., USA
U.S., 201 pp., Cont.-in-part of U.S. 5,872,098.
CODEN: USXXAM
 PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
                                            Patent
                                            English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                            APPLICATION NO.
         PATENT NO.
                                       KIND DATE
                                                                                                          DATE
         us 6090916
                                                  20000718
                                                                            US 1997-809455
                                                                                                          19970417
         US 5945275
US 5863894
                                                 19990831
                                        Α
                                                                            US 1994-326110
                                                                                                          19941018
                                                                            US 1995-465380
US 1995-486397
                                        Α
                                                  19990126
                                                                                                          19950605
         us 5866542
                                        Α
                                                 19990202
                                                                                                          19950605
         us 5866543
                                                  19990202
                                                                            us 1995-486399
                                                                                                          19950605
                                                  19990216
                                                                           US 1995-461965
WO 1995-US13231
         US 5872098
                                        Α
                                                                                                          19950605
         wo 9612021
                                                  19960425
                                        Α2
                                                                                                          19951017
                W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
                       GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
               MG, MW, MX, NO, NZ, PL, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
                       SN, TD, TG
                                                                            US 1999-249473
US 2000-498272
         US 6534629
                                                  20030318
                                                                                                          19990212
                                        в1
         US 2003113890
                                                  20030619
                                        Α1
                                                                                                          20000204
PRIORITY APPLN. INFO.:
                                                                       US 1994-326110
                                                                                                   A2 19941018
                                                                       US 1995-461965
                                                                                                   A2 19950605
                                                                                                   A2 19950605
A2 19950605
                                                                       US 1995-465380
                                                                       US 1995-486397
                                                                       us 1995-486399
                                                                                                   A2 19950605
                                                                       wo 1995-us13231 w 19951017
                                                                       US 1997-809455
                                                                                                    A1 19970417
OTHER SOURCE(S):
                                           MARPAT 133:116714
        ***Proteins*** which have activity as anticoagulants or serine protease ***inhibitors*** and have at least one NAP (nematode anticoagulant ***protein*** ) domain and are described. Certain of these ***proteins*** have factor Xa ***inhibitory*** activity and others have activity as ***inhibitors*** of factor VIIa/TF. These ***proteins*** can be isolated from natural sources such as the nematode Ancyclostoma caninum, chem. synthesized or made by expression of the cloned gene. Purifn. of two such ***proteins*** from A. caninum, cloning and expression of cDNAs encoding them and use of the cDNAs to
        cloning and expression of cDNAs encoding them, and use of the cDNAs to clone corresponding cDNAs from ***Necator*** ***americanus*** are described. The ***proteins*** had a Ki for factor Xa amidolytic activity of 43.+-.5 or 996.+-.65 pM and for prothrombin of 144.+-.15 and 207.+-.40 pM resp. The ***proteins*** were also effective in preventing thrombotic occlusion in vivo in the rat model of Fecl3-induced ***platelet** -dependent arterial thrombosis.
REFERENCE COUNT:
                                                      THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
                                            48
                                                      RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L8
        ANSWER 6 OF 8
                                        MEDLINE on STN
                                                                                                   DUPLICATE 2
                                   1999208706
                                                            MEDLINE
                                   99208706 PubMed ID: 10191228
The hookworm platelet inhibitor: functional blockade of integrins GPIIb/IIIa (alphaIIbbeta3) and GPIa/IIa
DOCUMENT NUMBER:
TITLE:
                                   (alpha2beta1) inhibits platelet aggregation and adhesion in
```

ACCESSION NUMBER:

vitro.

Chadderdon R C; Cappello M **AUTHOR:**

CORPORATE SOURCE: Dartmouth Medical School, Hanover, NH, USA..

robert.c.chadderdon@dartmouth.edu AI-01299 (NIAID)

CONTRACT NUMBER:

HD-27757 (NICHD) SOURCE:

JOURNAL OF IN TIOUS DISEASES, (1999 May) 179) 1235-41. Journal code: 0413675. ISSN: 0022-1899.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

ENTRY DATE:

English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH:

199906

Entered STN: 19990618 Last Updated on STN: 19990618

Entered Medline: 19990607

Entered Medline: 19990607

Hookworms , aggressive, blood-feeding, intestinal nematodes, are currently a leading cause of iron deficiency anemia in the developing world. An **inhibitor*** of ***platelet*** aggregation and adhesion has been partially purified and characterized from soluble

protein extracts of adult ***Ancylostoma*** ***caninum***

hookworms . This ***protein*** , named the ***hookworm***

platelet ***inhibitor*** , has an estimated molecular mass of 15 kDa as determined by size-exclusion chromatography. In addition to blocking ***platelet*** aggregation in response to a variety of agonists, the partially purified ***inhibitor*** also prevents adhesion of resting ***platelets*** to immobilized fibrinogen and collagen. ***Inhibitory*** monoclonal antibodies were used to AB ***Inhibitory*** monoclonal antibodies were used to collagen. identify specific blockade of cell surface integrins GPIIb/IIIa (alphaIbbeta3) and GPIa/IIa (alpha2beta1), the ***platelet*** receptors for fibringen and collagen, respectively. This broad-spectrum receptors for Tiprinogen and Constant and Co

ANSWER 7 OF 8 SCISEARCH COPYRIGHT 2003 THOMSON ISI ON STN SSION NUMBER: 97:795907 SCISEARCH L8

ACCESSION NUMBER:

THE GENUINE ARTICLE: YC301

TITLE:

Antithrombotic efficacy of a recombinant nematode

anticoagulant peptide (rNAP5) in canine models of

AUTHOR:

thrombosis after single subcutaneous administration Rebello S S; Blank H S; Rote W E; Vlasuk G P; Lucchesi B R

(Reprint)

CORPORATE SOURCE:

UNIV MICHIGAN, SCH MED, DEPT PHARMACOL, 1301C MED SCI RES BLDG 3, ANN ARBOR, MI 48109 (Reprint); UNIV MICHIGAN, SCH MED, DEPT PHARMACOL, ANN ARBOR, MI 48109

COUNTRY OF AUTHOR:

SOURCE:

JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (OCT 1997) Vol. 283, No. 1, pp. 91-99. Publisher: WILLIAMS & WILKINS, 351 WEST CAMDEN ST,

BALTIMORE, MD 21201-2436. ISSN: 0022-3565.

Article; Journal

DOCUMENT TYPE: FILE SEGMENT:

LIFE

LANGUAGE: REFERENCE COUNT:

English 34

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS We describe the antithrombotic effects of recombinant nematode AB anticoagulant peptide (rNAP5), a selective and direct factor Xa inhibitor, after a single s.c. administration in canine models of arterial and venous thrombosis. The systemic anticoagulant effects of rNAP5 were evaluated initially in conscious dogs after s.c. dosing (0.03, 0.1 and 0.3 mg/kg) that resulted in a dose-dependent increase in the activated clotting time and the activated partial thromboplastin time. The antithrombotic effects of rNAP5 were evaluated in anesthetized dogs where saline or rNAP5 (0.03, 0.1 and 0.3 mg/kg s.c.) was administered 1 hr before the left circumflex 0.1 and 0.3 mg/kg s.c.) was administered 1 hr before the left circumflex coronary artery was subjected to electrolytic injury. In the saline group (n = 10), the left circumflex artery occluded in 79 +/- 9 min, and 5 of 10 animals progressed to sudden death due to ventricular fibrillation. rNAP5 significantly prolonged the time to occlusion in the 0.03 mg/kg (163 +/- 62 min) and 0.1 mg/kg (327 +/- 62) treatment groups (n = 6). In the 0.3 mg/kg group (n = 5), all of the injured vessels remained patent for 8 hr. There was a dose-dependent reduction in the thrombus mass in the There was a dose-dependent reduction in the thrombus mass in the rNAP5-treated animals as compared with controls, as well as a lower mortality rate. rNAP5, in the doses of 0.03 and 0.1 mg/kg, did not alter the bleeding time, whereas 0.3 mg/kg produced a 5-fold increase. In a separate study, we evaluated the efficacy of rNAP5 (0.1 mg/kg) in the prevention of carotid artery and jugular vein thrombosis. In response to endothelial injury, the carotid artery and jugular vein in the saline group (n = 6) occluded in 142 +/- 16 and 100 +/- 11 min, respectively, compared with rNAP5, which maintained vessel patency in the carotid artery (6/6) and iugular vein (5/6) and significantly decreased the thrombus (6/6) and jugular vein (5/6) and significantly decreased the thrombus

weights. The results demonstrate that rNAP5 has antithrombotic efficacy in canine models of arterial and enous thrombosis after a single.c. administration.

L8

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ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS ON STN 5SION NUMBER: 1995:33807 CAPLUS
  ACCESSION NUMBER:
                                    122:1077
  DOCUMENT NUMBER:
                                    Novel neutrophil inhibitors for use as inflammation
  TITLE:
                                    inhibitors
  INVENTOR(S):
                                   Moyle, Matthew; Foster, David Lee; Vlasuk, George
                                    Phillip
PATENT ASSIGNEE(S):
                                    Corvas International, Inc., USA
                                    PCT Int. Appl., 139 pp.
  SOURCE:
                                    CODEN: PIXXD2
 DOCUMENT TYPE:
                                    Patent
                                    English
  LANGUAGE:
  FAMILY ACC. NUM. COUNT:
  PATENT INFORMATION:
         PATENT NO.
                               KIND DATE
                                                            APPLICATION NO. DATE
         wo 9414973
                                Α1
                                       19940707
                                                            wo 1993-us12626 19931223
              W: AU, CA, FI, JP, KR, NO, NZ
              RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
2152599 AA 19940707 CA 1993-2152599 19931223
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                                 Α1
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                                                                                  19931223
                  AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE 19055 T2 19960604 JP 1993-515483 19931223
         JP 08505055
PRIORITY APPLN. INFO.:
                                                       US 1992-996972 A 19921224
                                                       US 1993-60433
US 1993-151064
                                                                                  19930511
                                                                              Α
                                                                                  19931110
                                                       WO 1993-US12626 W 19931223
' AB
                            ***inhibit***
         Peptides that
                                                   neutrophil activity including adhesion to
        vascular endothelial cells are described for use as anti-inflammatories with a greater specificity than prior art inflammation ***inhibitors**
                                                                                     ***inhibitors***
            The peptides are derived from a glycoprotein of ***hookworm***
        may be manufd. by expression of the corresponding gene. Neutrophil

***inhibitors*** were purified 200-fold (12% yield) from lysates of
canine ***hookworm*** by chromatog. on ConA-Sepharose, Superdex 200
        ceramic hydroxyapatite and by reverse phase HPLC, or by a combination of ion-exchange chromatog., SDS-polyacrylamide gel electrophoresis, and
        isoelec. focussing. A cDNA was cloned by std. methods using amino acid sequence-derived primers to obtain a partial cDNA by PCR and the
        full-length cDNA expressed in COS-7 and CHO cells and in Pichia pastoris. The ***protein*** did not affect ADP-induced ***platelet*** aggregation. The primary receptor for the ***inhibitor*** was the CD11b/CD18. The neutrophil ***inhibitor*** was shown to chave a
        protective effect on arachidonic acid-induced neutrophil infiltration into
         ear tissue in a rat model.
  => d his
         (FILE 'HOME' ENTERED AT 16:46:33 ON 12 SEP 2003)
        FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 16:46:56 ON 12 SEP 2003
                8048 S HOOKWORM
  L2
                  501 S L1 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
                4739 S (ANCYLOSTOMA ADJ DUODENATE) OR (ANCYLOSTOMA CEYLANICUM) OR (N
                  470 S L3 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
  L4
  L5
                  728 S L4 OR L2
  L6
              165396 S INHIBIT? (P) PLATELET
 LŹ
                   16 S L5 (P) L6
 L8
                    8 DUPLICATE REMOVE L7 (8 DUPLICATES REMOVED)
 => s integrin
L9     107326 INTEGRIN
 => s fibrinogen or collagen
            549752 FIBRINOGEŇ OR COLLAGEN
 => s 19 (p) 110
 L11
             17045 L9 (P) L10
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PROXIMITY OPERATOR LEVEL NOT CONSTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'L76 (P) L67'
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=> s epinephrine or thrombin or adp
           478318 EPINEPHRINE OR THROMBIN OR ADP
L13
=> s 18 (p) 113
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 L15
 => s 18 (p) infection
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L16 0 L8 (P) INFECTION
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                  501 S L1 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
  L1
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  L2
                   470 S L3 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
  L3
L4
               728 S L4 OR L2
165396 S INHIBIT? (P) PLATELET
   L5
   L6
                    16 S L5 (P) L6
                     8 DUPLICATE REMOVE L7 (8 DUPLICATES REMOVED)
   L7
   L8
               107326 S INTEGRIN
   L9
               549752 S FIBRINOGEN OR COLLAGEN
   L10
                17045 S L9 (P) L10
3 S L8 (P) L11
   L11
               478318 S EPINEPHRINE OR THROMBIN OR ADP
   L12
   L13
                  2 S L8 (P) L13
4859 S L1 (P) INFECTION
0 S L8 (P) INFECTION
   ı 14
   L15
   L16
   => s immune response
              377594 IMMUNE RESPONSE
   L17
    => s 117 and 18
                     0 L17 AND L8
    L18
    => s cappello michael/au
                    52 CAPPELLO MICHAEL/AU
    L19
    => s chadderdon robert/au
                     O CHADDERDON ROBERT/AU
    L20
    => s del valle antonio/au
                      6 DEL VALLE ANTONIO/AU
    => s harrison lisa/au
                    10 HARRISON LISA/AU
    => s 119 or 121 or 122
L23 61 L19 OR L21 OR L22
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=> s 123 and (11 or 13)
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L24
=> s 124 and 16
                                                 7 L24 AND L6
L25
=> s 125 not 18
                                                 5 L25 NOT L8
 L26
 => d 126 1-5 ibib abs
 L26 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN
                                                                                                 2003:519414 CAPLUS
                                                                                                2003:519414 CAPLUS
Isolation and molecular cloning of a secreted

***platelet*** ***inhibitor***
 ACCESSION NUMBER:
                                                                                                         ***hookworm*** ***platelet*** ***inhib
om adult ***Ancylostoma*** ***caninum***
  TITLE:
                                                                                                 ***Del Valle, Antonio***; Jones, Brian F.;
Harrison, Lisa M.; Chadderdon, Robert C.;

***Cappello, Michael***
   AUTHOR(S):
                                                                                                 Child Health Research Center, Departments of Child Health Research Center, Departments of Pediatrics and Epidemiology & Public Health, Yale University School of Medicine, 464 Congress Avenue, New Haven, CT, 06520-8081, USA Molecular and Biochemical Parasitology (2003), 129(2), 127
   CORPORATE SOURCE:
    SOURCE:
                                                                                                   CODEN: MBIPDP; ISSN: 0166-6851
                                                                                                    Elsevier Science B.V.
     PUBLISHER:
                       JAGE: English

***Hookworms***, bloodfeeding intestinal nematodes, are a leading
cause of iron deficiency anemia in the developing world. These parasites
have evolved potent mechanisms of interfering with mammalian hemostasis,
presumably for the purpose of facilitating bloodfeeding. Adult
presumably for the purpose of facilitating bloodfeeding. Adult

***Ancylostoma***

***caninum***

***platelet***

aggregation and adhesion by blocking
the function of two cell surface integrin receptors, Glycoprotein IIb/IIIa
the function of two cell surface integrin receptors, Glycoprotein IIb/IIIa
and GPIa/IIa. Using rpHPLC, the ***hookworm***

***platelet***

activities have been purified from protein exts. of A.

**inhibitor***

activities have been purified from protein exts. of A.
caninum. Because the two ***inhibitory***

activities co-purified
through multiple chromatog. steps, have similar mol. masses and share
identical N-terminal as well as internal amino acid sequence homol., it is
likely that they represent a single gene product. A cDNA corresponding to
                                                                                                    Journal
     DOCUMENT TYPE:
     LANGUAGE:
                          likely that they represent a single gene product. A cDNA corresponding to the purified ***hookworm*** ***platelet*** ***inhibitor***
                          (HPI) protein has been cloned from adult A. caninum RNA, and the translated amino acid sequence shows significant homol. to Neutrophil ***Inhibitory*** Factor and Ancylostoma Secreted Proteins, suggesting that these related ***hookworm*** proteins represent a novel class of the contraction of the 
                           that these related ***hookworm*** proteins represent a novel class of integrin receptor antagonists. Polyclonal antibodies raised against the recombinant HPI protein recognize corresponding native proteins in A. caninum exts. and excretory/secretory products, and immunohistochem. data have identified the cenhalic glands as the major source of the
                            have identified the cephalic glands as the major source of the

***inhibitor*** within the adult ***hookworm***. These data suggest
                            that HPI is secreted by the adult ***nookworm*** . Inese data sugnthat HPI is secreted by the adult stage of the parasite at the site of intestinal attachment. As such, it may represent a viable target for a vaccine-based strategy aimed at interfering with ***hookworm*** -induced gastrointestinal hemorrhage and iron deficiency anemia.
           L26 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS ON STN ACCESSION NUMBER: 1999:316370 CAPLUS
           ACCESSION NUMBER:
                                                                                                          DOCUMENT NUMBER:
                                                                                                                                                                                                         ***platelet***
                                                                                                                   ***inhibitor*** : functional blockade of integrins
            TITLE:
                                                                                                           (.alpha.2.beta.1) ***inhibits***
                                                                                                          aggregation and adhesion in vitro Chadderdon, Robert C.; ***Cappello, Michael*** Dept. of Pediatrics, Yale School of Medicine, New Haven, CT, 06520-8081, USA Journal of Infectious Diseases (1999), 179(5),
             AUTHOR(S):
             CORPORATE SOURCE:
              SOURCE:
                                                                                                             1235-1241
                                                                                                             CODEN: JIDIAQ; ISSN: 0022-1899
University of Chicago Press
              PUBLISHER:
                                                                                                             Journal
              DOCUMENT TYPE:
                                 ***Hookworms*** , aggressive, blood-feeding, intestinal nematodes, are currently a leading cause of iron deficiency anemia in the developing world. An ***inhibitor*** of ***platelet*** aggregation and
              LANGUAGE:
              AB
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adhesion has been partially purified and characterized from sol protein exts. of adult ***Ancylost *** ***caninum*** ***hookworm*** ***platelet***
            This protein, named the ***hookworm*** ***platelet***

***inhibitor*** , has an estd. mol. mass of 15 kDa as detd. by

***einhibitor*** , has an estd. to blocking ***platelet***

size-exclusion chromatog. In addn. to blocking ***platelet***

aggregation in response to a variety of agonists, the partially purified aggregation in response to a variety of agonists, the partially purified aggregation in response to a variety of agonists.
            aggregation in response to a variety of agonists, the partially purified ***inhibitor*** also prevents adhesion of resting ***platelets*** immobilized fibrinogen and collagen. ***Inhibitory*** monoclonal antibodies were used to identify specific blockade of cell surface integrins GPIIb/IIIa (.alpha.IIb.beta.3) and GPIa/IIa (.alpha.2.beta.1), integrins GPIIb/IIIa (.alpha.IIb.beta.3) and GPIa/IIa (.alpha.7.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.3) and GPIa/IIa (.alpha.1Ib.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.3) and GPIa/IIIa (.alpha.1Ib.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.3) and GPIa/IIa (.alpha.1Ib.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.3) and GPIa/IIa (.alpha.1Ib.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.1), integrins GPIIb/IIIa (.alpha.1Ib.beta.1), integrins GPIIb/IIa (.alpha.1Ib.beta.1), integrins GPI
              excretory and secretory products of adult worms, suggesting a biol. role for the ***hookworm*** ***platelet*** ***inhibitor*** in vivo
                                                                                          THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS
                                                                                          RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
                                                                        44
REFERENCE COUNT:
                                                          BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
L26 ANSWER 3 OF 5
                                                           2003:407712 BIOSIS
ACCESSION NUMBER:
                                                           Isolation and molecular cloning of a secreted

***hookworm*** ***platelet*** ***inhib
from adult ***Ancylostoma*** ***caninum***
                                                           PREV200300407712
DOCUMENT NUMBER:
                                                                                                                                                                               ***inhibitor***
 TITLE:
                                                                 om adult ***Ancylostoma***; Jones, Brian F.; Harrison,
***Del Valle, Antonio***; Jones, Brian F.; Harrison,
***Cappello, Michael***
                                                            Lisa M.; Chadderdon, Robert C.;
 AUTHOR(S):
                                                            (1) Departments of Pediatrics and Epidemiology and Public
                                                            Health, Child Health Research Center, Yale University
  CORPORATE SOURCE:
                                                            School of Medicine, 464 Congress Avenue, New Haven, CT,
                                                            06520-8081, USA: michael.cappello@yale.edu USA
                                                            Molecular & Biochemical Parasitology, (July 2003, 2003)
                                                            vol. 129, No. 2, pp. 167-177. print.
  SOURCE:
                                                             ISSN: 0166-6851.
                                                             Article
   DOCUMENT TYPE:
                 ***Hookworms*** , bloodfeeding intestinal nematodes, are a leading
***Hookworms*** , bloodfeeding intestinal nematodes, are a leading
cause of iron deficiency anemia in the developing world. These parasites
have evolved potent mechanisms of interfering with mammalian hemostasis,
have evolved potent mechanisms of interfering bloodfeeding. Adult
presumably for the purpose of facilitating bloodfeeding. Adult
***Ancylostoma*** ***caninum*** worm extracts contain an activity
***Ancylostoma*** ***platelet*** aggregation and adhesion by
that ***inhibits*** ***platelet*** aggregation and adhesion by
   LANGUAGE:
                  blocking the function of two cell surface integrin receptors, Glycoprotein IIb/IIIa and GPIa/IIa. Using rpHPLC, the ***hookworm***

***platelet*** ***inhibitor*** activities have been purified from
                   protein extracts of A. caninum. Because the two ***inhibitory*** activities co-purified through multiple chromatographic steps, have
                   activities co-purified through multiple chromatographic steps, have similar molecular masses and share identical N-terminal as well as internal amino acid sequence homology, it is likely that they represent a single gene product. A cDNA corresponding to the purified ***hookworm*** single gene product. A cDNA corresponding to the purified ***hookworm*** single gene product. A cDNA corresponding to the purified ***hookworm***
                   adult A. caninum RNA, and the translated amino acid sequence shows significant homology to Neutrophil ***Inhibitory*** Factor and Ancylostoma Secreted Proteins, suggesting that these related ***hookworm*** proteins represent a novel class of integrin receptor antagonists. Polyclonal antibodies raised against the recombinant HPI antagonists.
                    protein recognize corresponding native proteins in A. caninum extracts and
                    protein recognize corresponding native proteins in A. cannum extracts and excretory/secretory products, and immunohistochemistry data have identified the cephalic glands as the major source of the ***inhibitor*** within the adult ***hookworm***. These data suggest
                      that HPI is secreted by the adult stage of the parasite at the site of
                     intestinal attachment. As such, it may represent a viable target for a vaccine-based strategy aimed at interfering with ***hookworm***
                      -induced gastrointestinal hemorrhage and iron deficiency anemia.
       L26 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
                                                                  1999:269953 BIOSIS
        ACCESSION NUMBER:
                                                                  PREV199900269953
                                                                                                                                                                                                   ***Inhibitor***
        DOCUMENT NUMBER:
                                                                                                                                           ***Platelet***
                                                                                   ***Hookworm***
                                                                                                                                                                          ***platelet***
                                                                   blocks fibrinogen binding to the
        TITLE:
                                                                  integrin GPIIb/IIIa (alphaIIbbeta3.

***Del Valle, Antonio (1)***; Chadderdon, Robert C.

(1); ***Cappello, Michael (1)***
        AUTHOR(S):
                                                                  (1) Dept. of Pediatrics, Yale University School of Medicine, New Haven, CT USA Pediatric Research, (April, 1999) Vol. 45, No. 4 PART 2,
         CORPORATE SOURCE:
         SOURCE:
                                                                   Meeting Info.: Annual Meeting of the American Pediatric
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Society and the Society for Pediatric Research Francisco, Cathornia, USA May 1-4, 1999 ISSN: 0031-3998.
                                   conference
DOCUMENT TYPE:
                                   English
LANGUAGE:
                                  BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN 1999:257895 BIOSIS
L26 ANSWER 5 OF 5
ACCESSION NUMBER:
                                   PREV199900257895
                                                                                                                 ***inhibitor***
DOCUMENT NUMBER:
                                                                               ***platelet***
                                             ***hookworm***
                                      he ***hookworm***
Functional blockade of integrins GPIIb/IIIa
Functional blockade of integrins GPIIb/IIIa
***inhibits***
TITLE:
                                   : Functional Diockade of Integrals (alpha2beta1) ***inhib (alphaIbbeta3) and GPIa/IIa (alpha2beta1) ***inhib ***platelet*** aggregation and adhesion in vitro. Chadderdon, Robert C.; ***Cappello, Michael (1)***
                                   Chadderdon, Robert C.; ***Cappello, Michael (1)***
(1) Dept. of Pediatrics, Yale School of Medicine, New
 AUTHOR(S):
                                   Haven, CT, 06520-8081 USA
Journal of Infectious Diseases, (May, 1999) Vol. 179, No.
 CORPORATE SOURCE:
 SOURCE:
                                    5, pp. 1235-1241.
ISSN: 0022-1899.
                                    Article
 DOCUMENT TYPE:
                                    English
 LANGUAGE:
                                          , aggressive, blood-feeding, intestinal nematodes, are
                                    English
 SUMMARY LANGUAGE:
          currently a leading cause of iron deficiency anemia in the developing world. An ***inhibitor*** of ***platelet*** aggregation and
         world. An ***inhibitor*** of ***platelet*** aggregation and adhesion has been partially purified and characterized from soluble protein extracts of adult ***Ancylostoma*** ***caninum***

***hookworms*** This protein, named the ***hookworm***

***platelet*** ***inhibitor***, has an estimated molecular mass of 15 kDa as determined by size-exclusion chromatography. In addition to blocking ***platelet*** aggregation in response to a variety of agonists, the partially purified ***inhibitor*** also prevents adhesion of resting ***platelets*** to immobilized fibrinogen and collagen. ***Inhibitor*** monoclonal antibodies were used to identify
                                                               monoclonal antibodies were used to identify
           adhesion of resting ***plat
           specific blockade of cell surface integrins GPIIb/IIIa (alphaIIbbeta3), and GPIa/IIa (alpha2beta1), the ***platelet*** receptors for
           and Gria/ila (alphazuetai), the practice fibrinogen and collagen, respectively. This broad-spectrum anti-
fibrinogen and collagen, respectively. This broad-spectrum anti-
***platelet*** activity is also present in excretory and secretory
           products of adult worms, suggesting a biologic role for the ***hookworm*** ***platelet*** ***inhibitor*** ir
   => d his
            (FILE 'HOME' ENTERED AT 16:46:33 ON 12 SEP 2003)
            FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 16:46:56 ON 12 SEP 2003
                       8048 S HOOKWORM
                         501 S L1 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
                       4739 S (ANCYLOSTOMA ADJ DUODENATE) OR (ANCYLOSTOMA CEYLANICUM) OR (N
   L2
L3
                         470 S L3 (P) (PEPTIDE POLYPEPTIDE OR PROTEIN)
728 S L4 OR L2
   L4
L5
                    165396 S INHIBIT? (P) PLATELET
    L6
L7
                           16 S L5 (P) L6
                             8 DUPLICATE REMOVE L7 (8 DUPLICATES REMOVED)
    L8
                    107326 S INTEGRIN
    L9
                    549752 S FIBRINOGEN OR COLLAGEN
    L10
                      17045 S L9 (P) L10
3 S L8 (P) L11
    L11
                    478318 S EPINEPHRINE OR THROMBIN OR ADP
    L12
     L13
                        2 S L8 (P) L13
4859 S L1 (P) INFECTION
0 S L8 (P) INFECTION
     L14
     L15
     L16
                     377594 S IMMUNE RESPONSE
     L17
                             0 S L17 AND L8
     L18
                            52 S CAPPELLO MICHAEL/AU
     L19
                              O S CHADDERDON ROBERT/AU
     L20
                              6 S DEL VALLE ANTONIO/AU
     L21
                            10 S HARRISON LISA/AU
     L22
                             61 S L19 OR L21 OR L22
      L23
                            41 S L23 AND (L1 OR L3)
      L24
                              7 S L24 AND L6
      L25
                              5 S L25 NOT L8
      L26
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6

FULL ESTIMATED COST

ENTRY 99.02 SESSTON 9

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY -4.56 TOTAL SESSION -4.56

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